
Index

A

Administrative support: 9–10, 35, 45–46
Aerial reconnaissance: 10
Agnos, Art: 69–70
Air Rescue and Recovery Group, 129th: 10
Airlift assistance: 9, 10
Airports: 41, 58–59
Alameda, CA: 47, 51
Alameda County, CA: 6, 21, 51
Alameda Naval Air Station: 9, 10
Albany, CA: 47
American Red Cross: 4, 9, 10

B

Baughman, Bruce: 20, 21, 40, 41, 44
Baxter, Lt. Gen. George: 15, 69–70
Bay Bridge: 9, 15, 19, 47, 55, 58, 59, 69
Bay Farm Island: 47
Beale Air Force Base: 10
Berkeley Marina: 48, 51
Berkeley Yacht Harbor: 47
Best, Robert K.: 55–56
Bhamidipaty, Surya: 64–65
Bridges: 51
Brussard, Bob: 20, 21, 28
Buena Vista Farm, Watsonville, CA: 49
Buildings, collapse of: 1–2, 9

Bureau of Reclamation: 13
Bush, George: 5–6, 7, 25

C

California, governor of: 4, 6, 39, 61
California Air National Guard: 10
California Army National Guard: 10
California Department of Fish and Game: 48
California Department of Transportation (CALTRANS): 23, 47–48, 55–58
California Department of Water Resources: 13
California Division of Mines and Geology: 52–53
California National Guard: 10
California Office of Emergency Services: 8, 10, 13, 15, 25, 52–53, 67, 68
Carlson, Col. Albert E.: 8
Catastrophic Disaster Response Group: 4, 5
Cheney, Richard: 7
Clerical personnel: 20, 25, 35
Coffey, Lt. Col. William T.: 11, 14, 21–22, 41, 42, 44, 45–46
Commander's Awards for Civilian Service: 70

Communications coordination: 9, 10, 14, 30, 69, 71
 Communications problems: 11–13, 19
 Construction equipment: 9
 Construction management assistance: 20
 Contracting authority: 13–14, 17, 63
 Contractors: 27, 28, 33–34, 48, 63
 Contracts: 13, 14–15, 17, 48, 53, 63
 Corps of Engineers: *see* U.S. Army Corps of Engineers
 Corralitos Creek: 63
 Cost accounting: 22, 40
 Cost estimates: 42, 44, 61, 63
 Cost sharing: 39, 47, 68
 Cranes, damage to: 41
 Culp, Col. Dennis K.: 13, 14, 21–22, 27–28, 34, 35, 40–41
 Cypress Street Viaduct (I-880): 1–2, 9, 15, 55–57, 58

D

Damage assessment: 10, 15, 16, 17, 19, 21, 22–23, 25, 27, 35–36, 39–46, 47, 51, 53, 55–57, 59
 Damage survey reports: 21, 39–46, 59
 Dams: 13, 15, 16, 39
 Deaths: 1–2
 Debris, disposal of: 57–59
 Directorate of Military Support (DOMS): 7, 10, 16
 Disaster control officer: 7–8

Disaster Relief Act of 1974: 64
 Disaster Relief Fund: 4
 Docks: 47–48, 51
 Dredging: 14–15, 47–48
 Dretke, Gene: 28, 32, 34
 Dutra Dredging Company: 48

E

East Bay harbor: 47, 59
 Edmisten, Robert: 64–65
 Elmore, John P.: 4, 63
 Emeryville Marina: 51
 Engineers: *see* U.S. Army Corps of Engineers
 Engineering and Housing Support Center (EHSC): 17
 Environmental Protection Agency: 4, 48, 57–58
 Erwin, Larry L.: 69–70

F

Federal Aviation Administration: 4, 59
 Federal Emergency Management Agency (FEMA): 3–6, 7, 9–10, 13–14, 19–20, 21, 23, 25, 27–32, 34, 36, 39–43, 47–49, 51, 53, 55, 61, 64, 67–71
 crisis management staff: 3
 disaster application centers: 5, 27, 30, 31–32
 disaster field office: 9–10, 19, 20, 21–23, 30, 32, 35, 39, 42–44, 46, 52, 64, 67, 69

emergency information
and coordination center:
4
hazard mitigation
team: 35, 64–65
Region IX Interagency
Steering Committee:
64
training provided by:
31–32, 35, 42–44
Federal Highway Administration:
56
Ferrin, Lt. Col. Frederick:
11, 14
Ferry service: 47–48, 51, 59
Fire fighting: 8–9, 11
Fires: 2, 8–9, 69
Fisheries: 57–58
*Flood Control and Coastal
Storm Emergencies*: 20,
61
Flood control systems: 15,
20, 61, 63, 69–70
Food, emergency: 9
FORSCOM: 7–8
Fort Belvoir, VA: 17
Fort Mason: 11
Franklin, Gus: 64–65
Fraud: 36
Fruitvale Avenue Railroad
Bridge: 51
Fulton, Dave: 13, 14, 19–
20, 22, 31–32

G

General Accounting Office:
67
General Services Administration:
4, 59
Geotechnical assistance:
51–53

Golden Gate Fields: 47
Golden Gate Reserve Center:
10
Gorup, Roy: 41
Graham, Maj. Gen. Todd P.:
7–8
Grahl, Helga: 12, 41
Granite Construction: 63
Grants, federal: 39–46
Grebinski, Mike: 21–22

H

Habitability inspections:
27, 28, 31–32, 36, 44–45
Hall, Robert: 64–65
Hamner, Tommie C.: 6, 8,
15, 47, 64
Hatch, Lt. Gen. Henry J.:
13, 16, 27–29, 56, 70
Hazard mitigation: 4, 64–
65
Hazard mitigation team:
35, 52, 64–65
Heating systems: 49
Hecker, Edward: 12, 14, 19–
20, 21, 41
Hempfen, Greg: 64–65
High Street Bridge: 51
Highways
Cypress Street Viaduct
(I-880): 1–2, 9, 15,
55–57, 58
damage assessment:
25, 55–57
Embarcadero Freeway:
2, 11
I-480: 2
Hollister, CA: 30, 31, 33,
35–36
Homeless, shelters for the:
1, 2, 8–9, 10, 34, 36, 49

Housing assistance: 27, 36
Hurdle, Jack: 64–65
Hurricane Hugo: 5, 27, 36,
40–41, 67–68, 69, 70

I

Individual assistance programs: 6, 20, 21–23, 27–37, 44–45, 69, 70
Injuries: 1–2

K

Kelly, Brig. Gen. Patrick: 15
Komoroske, Paul: 64–65
Kuzmiak, Pat: 12

L

Lake Elsman dam: 15
Landslides: 51–53
Language differences, problems posed by: 35–36
Law enforcement, support to: 8–9, 10
LeCuyer, Col. Jack A.: 13, 29–30, 55–56
Lessons learned: 67–68
Levees
 damage assessment: 13, 16, 58
 repair of: 23, 39, 61, 63
Lexington dam: 15
Lighting equipment: 8–9
Loma Prieta Mountain: 1
Los Angeles District: 59
Los Gatos, CA: 30, 31, 33

M

McCarthy, Leo T.: 6
Manson Dredging: 48
Marina Area Office: 32–33, 35

Marina District: 2, 8–9, 11, 15

Marine Air Group 42: 9
Marine Expeditionary Unit, 15th: 9–10

Marriott Hotel, dock slip dredged: 47

Mason, Lt. Col. Timothy: 21–22, 29–30, 32, 34

Mather Air Force Base: 10
Meritorious Service Medals: 70

Military Air Command: 58

Military police, use of: 8–9

Miller Sweeney Bridge: 51

Mission assignment letters: 25, 39–40, 47, 51

Missouri River Division: 45–46

Moffett Field Naval Air Station: 10

Monterey, CA: 6, 13, 19, 21, 25

Mountain View, CA: 1, 19, 20, 22, 42

N

National Earthquake Hazards Reduction Program: 64

National Guard: 10, 68

National Institute of Standards and Technology: 56

National Oceanic and Atmospheric Administration (NOAA): 57–58

Newell Creek dam: 15

O

Oakland, CA: 9, 19, 30, 31, 33, 37, 55

Oakland Army Base: 59
Oakland International Air-
port: 41
Ocean disposal sites: 57–59
Ocean Dumping Act: 57–58
Office of Management and
Budget: 67–68
Outer Harbor Terminal: 59

P

Pacific Gas and Electric: 9
Page, Robert W.: 70
Pajaro River: 61, 63
Panetta, Leon E.: 25, 52
Park Street Bridge: 51
Perry, Chuck: 64–65
Peterson, Grant C.: 3
Plan for Federal Response
to a Catastrophic Earth-
quake: 3, 4–5, 19, 67
Port of Oakland: 41, 58–59
Power generators: 2, 9, 17
Preparedness: 3, 68–69, 70,
71
Presidio: 8, 10, 14, 16, 59,
69, 71
Productivity: 33–34, 35
Public assistance programs:
20, 21–23, 39–46, 68, 69

Q

Quality assurance: 32, 41,
42
Quality control: 32, 42–43
Quayle, Dan: 5–6

R

Reclamation, Bureau of: 13
Redwood City, CA: 30, 31,
33

Reimbursement arrange-
ments: 25, 27, 40, 47, 51
Rental assistance checks:
36, 70
Rescue efforts: 9
“Response ’89” exercise: 69
Richmond Inner Harbor: 51
Richter scale: 1
Rimbach, Capt. Charles: 32
Robert T. Stafford Disaster
Relief and Emergency
Assistance Act: 3–4, 6
Robertson, Lt. Col. James
Jeffrey: 16
Runways: 41, 58, 59

S

Sacramento, CA: 4, 8, 28,
68
Sacramento District: 11–
12, 13, 15, 16, 19–20, 21,
22, 25, 29–31, 39, 41, 44,
51, 55–56, 57, 59, 69, 70
Sacramento River: 15
San Benito County, CA: 6,
21, 25
San Francisco, CA: 1–2, 6,
8–9, 21, 30, 33, 42, 44,
47–48, 59
San Francisco County, CA:
21
San Francisco District: 12,
13, 14–15, 16, 19–20, 21,
22, 39, 47, 51, 53, 59, 61,
63, 69
San Francisco earthquake
of 1906: 11
San Francisco Harbor: 9
San Francisco International
Airport: 59
San Joaquin River: 15

San Leandro Bay: 47
 San Leandro Marina: 51
 San Lorenzo River: 61, 63
 San Mateo County, CA: 6, 21
 Santa Clara, CA: 41
 Santa Clara County, CA: 6, 21
 Santa Cruz, CA: 1, 2, 9, 30, 31, 33, 42, 44, 61, 63, 69–70
 Santa Cruz County, CA: 6, 21, 25, 52–53
 Santa Cruz Department of Parks and Recreation: 51
 Santa Cruz Mountains: 51–53, 61
 Sausalito base yard: 15
 School districts: 59
 Seventh Street Marine Terminal: 58–59
 Shelters for the homeless: 1, 2, 8–9, 10, 34, 36, 49
 Ships, Navy: 9
 Sills, David: 64–65
 Sixth Army: 7–8, 13, 14, 15, 20, 67, 68, 69
 Skinner, Samuel K.: 5–6
 Small Business Administration: 27, 59
 Smith, Maj. Gen. James D.: 7
 Sobke, Brig. Gen. John: 12, 13–15, 17, 19–20, 21, 22, 25, 27–28, 41, 56, 61, 68, 69, 71
 South Pacific Division: 11–13, 16, 17, 20–23, 28–29, 47, 52, 53, 57, 61, 63, 68, 69, 71
 Earthquake Operations Order #2: 20–21

Emergency Management Branch: 12
 emergency operations center: 14, 22, 28
 organizational structure for response: 19–23, 30, 41, 69
 Structural damage
 to bridges: 51
 to buildings: 2, 9, 28, 51
 to highways: 2, 9, 15, 25, 55–57
 to piers: 51
 Sununu, John: 5–6

T

Tactical Command Readiness Exercise: 68
 Technical assistance: 23, 47, 51–53, 57, 59
 Todd Shipyard: 47, 51
 Traffic control: 9–10
 Training: 3, 31–32, 35, 40, 41, 43–45, 68–69, 70, 71
 Transportation, means of: 10, 11, 17, 47–48, 59
 Travis Air Force Base: 10, 17
 Treasure Island Naval Station: 9

U

U.S. Air Force: 7, 8, 10
 U.S. Army: 7–11, 59
 U.S. Army Corps of Engineers
 costs: 37, 52
 Headquarters (HQ-USACE): 12–13, 15, 16, 27–28, 41, 61, 63

organization of response: 11–17
personnel management: 44–46
staffing: 28–31, 32–33, 35, 40–41, 44–46, 70
see also: specific districts and divisions
U.S. Army Forces Command (FORSCOM): 7–8
U.S. Coast Guard: 57–58
U.S. Department of Defense: 7–10, 11, 65
U.S. Department of Education: 59
U.S. Department of Transportation: 4, 56
U.S. Fish and Wildlife Service: 48
U.S. Geological Survey: 52–53
U.S. Marine Corps: 9
U.S. Navy: 8, 9
USS *Flint*: 9
USS *Fort Fisher*: 9
USS *Gompers*: 9
USS *Gray*: 9
USS *Kansas City*: 9
USS *Lang*: 9

USS *Pelilieu*: 9, 10
USS *Schenectady*: 9
USS *Texas*: 9
Urban search and rescue mission: 8–9, 13–14, 20

V

Vallejo Pier: 51
Vickers, Bob: 20
Videotaping: 16, 57

W

Waite, Daryl: 41
Water supplies: 9
Waterways Experiment Station: 52, 53
Watsonville, CA: 30, 33, 49, 63
White House: 5–6
William Cotton and Associates: 53
Workload, management of: 20, 32–33, 42

Y

Yanagihara, Col. Galen: 11–12, 14, 25, 63
Young, Rich: 11–12, 20